```
BBBBBBBBBBBB        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBBBBBBBBBBB        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBBBBBBBBBBB        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBB          BBB   AAA       AAA   SSS           RRR         RRR       TTT        LLL
BBB          BBB   AAA       AAA   SSS           RRR         RRR       TTT        LLL
BBB          BBB   AAA       AAA   SSS           RRR         RRR       TTT        LLL
BBB          BBB   AAA       AAA   SSS           RRR         RRR       TTT        LLL
BBB          BBB   AAA       AAA   SSS           RRR         RRR       TTT        LLL
BBB          BBB   AAA       AAA   SSS           RRR         RRR       TTT        LLL
BBBBBBBBBBBB       AAA       AAA     SSSSSSSSS   RRRRRRRRRRR           TTT        LLL
BBBBBBBBBBBB       AAA       AAA     SSSSSSSSS   RRRRRRRRRRR           TTT        LLL
BBBBBBBBBBBB       AAA       AAA     SSSSSSSSS   RRRRRRRRRRR           TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR             TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR             TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR             TTT        LLL
BBB          BBB   AAA       AAA           SSS  RRR      RRR           TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR             TTT        LLL
BBB          BBB   AAA       AAA           SSS  RRR      RRR           TTT        LLL
BBB          BBB   AAA       AAA           SSS  RRR      RRR           TTT        LLL
BBB          BBB   AAA       AAA           SSS  RRR      RRR           TTT        LLL
BBBBBBBBBBBB       AAA       AAA   SSSSSSSSSSS   RRR         RRR       TTT        LLLLLLLLLLLLLLL
BBBBBBBBBBBB       AAA       AAA   SSSSSSSSSSS   RRR         RRR       TTT        LLLLLLLLLLLLLLL
BBBBBBBBBBBB       AAA       AAA   SSSSSSSSSSS   RRR         RRR       TTT        LLLLLLLLLLLLLLL
```

FILEID**BASNAMEAS

```
BBBBBBBB      AAAAAA      SSSSSSSS  NN      NN    AAAAAA    MM      MM  EEEEEEEEEE    AAAAAA      SSSSSSSS
BBBBBBBB      AAAAAA      SSSSSSSS  NN      NN    AAAAAA    MM      MM  EEEEEEEEEE    AAAAAA      SSSSSSSS
BB      BB  AA      AA  SS        NN      NN  AA      AA  MMMM  MMMM  EE            AA      AA  SS
BB      BB  AA      AA  SS        NN      NN  AA      AA  MMMM  MMMM  EE            AA      AA  SS
BB      BB  AA      AA  SS        NNNN    NN  AA      AA  MM  MM  MM  EE            AA      AA  SS
BB      BB  AA      AA  SS        NNNN    NN  AA      AA  MM  MM  MM  EE            AA      AA  SS
BBBBBBBB    AA      AA    SSSSSS  NN  NN  NN  AA      AA  MM      MM  EEEEEEEE      AA      AA    SSSSSS
BBBBBBBB    AA      AA    SSSSSS  NN  NN  NN  AA      AA  MM      MM  EEEEEEEE      AA      AA    SSSSSS
BB      BB  AAAAAAAAAA          SS  NN    NNNN  AAAAAAAAAA  MM      MM  EE            AAAAAAAAAA          SS
BB      BB  AAAAAAAAAA          SS  NN    NNNN  AAAAAAAAAA  MM      MM  EE            AAAAAAAAAA          SS
BB      BB  AA      AA          SS  NN      NN  AA      AA  MM      MM  EE            AA      AA          SS      ....
BB      BB  AA      AA          SS  NN      NN  AA      AA  MM      MM  EE            AA      AA          SS      ....
BBBBBBBB    AA      AA  SSSSSSSS    NN      NN  AA      AA  MM      MM  EEEEEEEEEE    AA      AA  SSSSSSSS        ....
BBBBBBBB    AA      AA  SSSSSSSS    NN      NN  AA      AA  MM      MM  EEEEEEEEEE    AA      AA  SSSSSSSS        ....
```

```
LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE BAS$NAME_AS (                          ! Change a file's name
;     2          0002  0                 IDENT = '1-002'               ! File: BASNAMEAS.B32
;     3          0003  0                 ) =
;     4          0004  1 BEGIN
;     5          0005  1
;     6          0006  1 !****************************************************************************
;     7          0007  1 !*                                                                          *
;     8          0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
;     9          0009  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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;    22          0022  1 !*                                                                          *
;    23          0023  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
;    25          0025  1 !*                                                                          *
;    26          0026  1 !*                                                                          *
;    27          0027  1 !****************************************************************************
;    28          0028  1 !
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 ! FACILITY:  BASIC-PLUS-2 Miscellaneous
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module implements the BASIC NAME ... AS statement,
;    36          0036  1 !       which renames a file.
;    37          0037  1 !
;    38          0038  1 ! ENVIRONMENT:  VAX-11 User Mode
;    39          0039  1 !
;    40          0040  1 ! AUTHOR: John Sauter, CREATION DATE: 28-FEB-1979
;    41          0041  1 !
;    42          0042  1 ! MODIFIED BY:
;    43          0043  1 !
;    44          0044  1 ! 1-001 - Original.  JBS 28-FEB-1979
;    45          0045  1 ! 1-002 - Use BAS$$STOP_RMS for errors.  JBS 22-AUG-1979
;    46          0046  1 !--
;    47          0047  1
;    48          0048  1 !<BLF/PAGE>
```

```
;    50          0049  1 !
;    51          0050  1 ! SWITCHES:
;    52          0051  1 !
;    53          0052  1
;    54          0053  1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;    55          0054  1
;    56          0055  1 !
;    57          0056  1 ! LINKAGES:
;    58          0057  1 !
;    59          0058  1 !       NONE
;    60          0059  1 !
;    61          0060  1 ! TABLE OF CONTENTS:
;    62          0061  1 !
;    63          0062  1
;    64          0063  1 FORWARD ROUTINE
;    65          0064  1     BAS$NAME_AS : NOVALUE;                  ! Change a file's name
;    66          0065  1
;    67          0066  1 !
;    68          0067  1 ! INCLUDE FILES:
;    69          0068  1 !
;    70          0069  1
;    71          0070  1 REQUIRE 'RTLIN:RTLPSECT';                   ! Macros for defining psects
;    72          0165  1
;    73          0166  1 LIBRARY 'RTLSTARLE';                        ! System definitions
;    74          0167  1
;    75          0168  1 !
;    76          0169  1 ! MACROS:
;    77          0170  1 !
;    78          0171  1 !       NONE
;    79          0172  1 !
;    80          0173  1 ! EQUATED SYMBOLS:
;    81          0174  1 !
;    82          0175  1 !       NONE
;    83          0176  1 !
;    84          0177  1 ! PSECTS:
;    85          0178  1 !
;    86          0179  1 DECLARE_PSECTS (BAS);                       ! Declare psects for BAS$ facility
;    87          0180  1 !
;    88          0181  1 ! OWN STORAGE:
;    89          0182  1 !
;    90          0183  1 !       NONE
;    91          0184  1 !
;    92          0185  1 ! EXTERNAL REFERENCES:
;    93          0186  1 !
;    94          0187  1
;    95          0188  1 EXTERNAL ROUTINE
;    96          0189  1     BAS$$STOP_RMS : NOVALUE;                ! Signals BASIC RMS error
;    97          0190  1
```

```
;    99          0191  1 GLOBAL ROUTINE BAS$NAME_AS (                      ! Change a file name
;   100          0192  1         OLD_FILE,                                  ! Old name of file
;   101          0193  1         NEW_FILE                                   ! New name of file
;   102          0194  1     ) : NOVALUE =
;   103          0195  1
;   104          0196  1 !++
;   105          0197  1 ! FUNCTIONAL DESCRIPTION:
;   106          0198  1 !
;   107          0199  1 !       Changes a file's name.  This is done by using the $RENAME
;   108          0200  1 !       RMS macro.
;   109          0201  1 !
;   110          0202  1 ! FORMAL PARAMETERS:
;   111          0203  1 !
;   112          0204  1 !       OLD_FILE.rt.dx  The old name of the file.
;   113          0205  1 !       NEW_FILE.rt.dx  The new name of the file.
;   114          0206  1 !
;   115          0207  1 ! IMPLICIT INPUTS:
;   116          0208  1 !
;   117          0209  1 !       NONE
;   118          0210  1 !
;   119          0211  1 ! IMPLICIT OUTPUTS:
;   120          0212  1 !
;   121          0213  1 !       NONE
;   122          0214  1 !
;   123          0215  1 ! ROUTINE VALUE:
;   124          0216  1 ! COMPLETION CODES:
;   125          0217  1 !
;   126          0218  1 !       NONE
;   127          0219  1 !
;   128          0220  1 ! SIDE EFFECTS:
;   129          0221  1 !
;   130          0222  1 !       Changes the directory entry for the file, but does not alter the
;   131          0223  1 !       file name stored in the file header block.
;   132          0224  1 !
;   133          0225  1 !--
;   134          0226  1
;   135          0227  2     BEGIN
;   136          0228  2
;   137          0229  2     MAP
;   138          0230  2         OLD_FILE : REF BLOCK [8, BYTE],
;   139          0231  2         NEW_FILE : REF BLOCK [8, BYTE];
;   140          0232  2
;   141          0233  2     LOCAL
;   142          0234  2         OLD_FAB : $FAB_DECL,
;   143          0235  2         NEW_FAB : $FAB_DECL,
;   144          0236  2         OLD_NAM : $NAM_DECL,
;   145          0237  2         NEW_NAM : $NAM_DECL,
;   146          0238  2         RENAME_RESULT;
;   147          0239  2
;   148        P 0240  2     $FAB_INIT (FAB = OLD_FAB,                      !
;   149        P 0241  2         FNA = .OLD_FILE [DSC$A_POINTER],           !
;   150        P 0242  2         FNS = .OLD_FILE [DSC$W_LENGTH],            !
;   151          0243  2         NAM = OLD_NAM);
;   152        P 0244  2     $FAB_INIT (FAB = NEW_FAB,                      !
;   153        P 0245  2         FNA = .NEW_FILE [DSC$A_POINTER],           !
;   154        P 0246  2         FNS = .NEW_FILE [DSC$W_LENGTH],            !
;   155          0247  2         NAM = NEW_NAM);
```

```
;  156        0248  2     $NAM_INIT (NAM = OLD_NAM);
;  157        0249  2     $NAM_INIT (NAM = NEW_NAM);
;  158        0250  2     RENAME_RESULT = $RENAME (OLDFAB = OLD_FAB, NEWFAB = NEW_FAB);
;  159        0251  2
;  160        0252  2     IF ( NOT .RENAME_RESULT) THEN BAS$$STOP_RMS (.OLD_FILE, .OLD_FAB [FAB$L_STS], .OLD_FAB [FAB$L_STV]);
;  161        0253  2
;  162        0254  2     RETURN;
;  163        0255  1     END;                                          ! end of BAS$NAME_AS

                                                                    .TITLE  BAS$NAME_AS
                                                                    .IDENT  \1-002\

                                                                    .EXTRN  BAS$$STOP_RMS, SYS$RENAME

                                                                    .PSECT  _BAS$CODE,NOWRT,  SHR,  PIC,2

                                                   007C 00000       .ENTRY  BAS$NAME_AS, Save R2,R3,R4,R5,R6                     ; 0191
                               5E    FEA0    CE   9E 00002          MOVAB   -352(SP), SP
  0050   8F         00         6E            00   2C 00007          MOVC5   #0, (SP), #0, #80, $RMS_PTR                          ; 0243
                                     B0      AD      0000E
                        B0     AD    5003    8F   B0 00010          MOVW    #20483, $RMS_PTR
                        C6     AD            02   90 00016          MOVB    #2, $RMS_PTR+22
                        CF     AD            02   90 0001A          MOVB    #2, $RMS_PTR+31
                        D8     AD    60      AE   9E 0001E          MOVAB   OLD_NAM, $RMS_PTR+40
                               56    04      AC   D0 00023          MOVL    OLD_FILE, R6
                        DC     AD    04      A6   D0 00027          MOVL    4(R6), $RMS_PTR+44
                        E4     AD            66   90 0002C          MOVB    (R6), $RMS_PTR+52
  0050   8F         00         6E            00   2C 00030          MOVC5   #0, (SP), #0, #80, $RMS_PTR                          ; 0247
                                     FF60    CD      00037
                      FF60     CD    5003    8F   B0 0003A          MOVW    #20483, $RMS_PTR
                      FF76     CD            02   90 00041          MOVB    #2, $RMS_PTR+22
                      FF7F     CD            02   90 00046          MOVB    #2, $RMS_PTR+31
                        88     AD            6E   9E 0004B          MOVAB   NEW_NAM, $RMS_PTR+40
                               50    08      AC   D0 0004F          MOVL    NEW_FILE, R0
                        8C     AD    04      A0   D0 00053          MOVL    4(R0), $RMS_PTR+44
                        94     AD            60   90 00058          MOVB    (R0), $RMS_PTR+52
  0060   8F         00         6E            00   2C 0005C          MOVC5   #0, (SP), #0, #96, $RMS_PTR                          ; 0248
                                     60      AE      00063
                        60     AE    6002    8F   B0 00065          MOVW    #24578, $RMS_PTR
  0060   8F         00         6E            00   2C 0006B          MOVC5   #0, (SP), #0, #96, $RMS_PTR                          ; 0249
                                             6E      00072
                               6E    6002    8F   B0 00073          MOVW    #24578, $RMS_PTR
                                     FF60    CD   9F 00078          PUSHAB  NEW_FAB                                              ; 0250
                                             7E   7C 0007C          CLRQ    -(SP)
                                     B0      AD   9F 0007E          PUSHAB  OLD_FAB
                   00000000G   00            04   FB 00081          CALLS   #4, SYS$RENAME
                               0D            50   E8 00088          BLBS    RENAME_RESULT, 1$                                    ; 0252
                               7E    B8      AD   7D 0008B          MOVQ    OLD_FAB+8, -(SP)
                                             56   DD 0008F          PUSHL   R6
                   00000000G   00            03   FB 00091          CALLS   #3, BAS$$STOP_RMS
                                                  04 00098   1$:    RET                                                          ; 0255

; Routine Size:  153 bytes,    Routine Base:  _BAS$CODE + 0000


;  164        0256  1
```

```
;  165          0257  1 END                          ! end of module BAS$NAME_AS
;  166          0258  1
;  167          0259  0 ELUDOM



;                                  PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  _BAS$CODE                       153  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)


;                                Library Statistics
;
;                                          --------  Symbols  --------      Pages       Processing
;       File                               Total     Loaded   Percent       Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1        9776         58         0        581         00:01.0



;                                       COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:BASNAMEAS/OBJ=OBJ$:BASNAMEAS MSRC$:BASNAMEAS/UPDATE=(ENH$:BASNAMEAS
;       )

; Size:         153 code + 0 data bytes
; Run Time:         00:07.1
; Elapsed Time:     00:17.5
; Lines/CPU Min:     2179
; Lexemes/CPU-Min: 46451
; Memory Used:  95 pages
; Compilation Complete
```

BASMID
LIS

BASMULDDT
LIS

BASNOTIMP
LIS

BASMOVEAR
LIS

BASMSGDEF
LIS

BASMSGGEN
LIS

BASONECHR
LIS

BASMOVE
LIS

BASNUM
LIS

BASNAMEAS
LIS

BASNUM
LIS